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| APPLICATION NO.  | FILING DATE     | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
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| 10/633,146 07/31/2003                                      |                 | Yoshimoto Matsuda    | ACO 354             | ACO 354 5453     |  |
| 23581  | 7590 08/06/2004 |                      | EXAMINER            |                  |  |
| KOLISCH HARTWELL, P.C.                                     |                 | SOTELO, JESUS D      |                     |                  |  |
| 520 S.W. YAMHILL STREET<br>SUITE 200<br>PORTLAND, OR 97204 |                 |                      | ART UNIT            | PAPER NUMBER     |  |
|  |                 |                      | 3617                |                  |  |

DATE MAILED: 08/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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| 1) Responsive to communication(s) filed on   |   | Application No.                       | Applicant(s)       |  |  |  |  |
|--|---|---------------------------------------|--------------------|--|--|--|--|
| Jesús D. Sotelo   Jesús D.     | Office Action Comment   | 10/633,146                            | MATSUDA, YOSHIMOTO |  |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Exemisors drum may be available under the provision of 3 CFR 1 135(a). In or event, however, may a reply be timely filled by the period for reply specified above is less than bility (30 days, a reply within the satisfaction principle in the period for reply specified above. The maximum statistic period will apply and will explore (50) MONTH'S from the mailing date of this communication. Fallure to reply whithe the set or extended period for reply will, by adultion, ensure the application to become 8ANDONED (35 U.S.C. § 133). Search 18 and 18  | Office Action Summary   | Examiner                              | Art Unit           |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - and EXPLOY MONTHS from the mailtained and control of the control of th  |   |                                       |                    |  |  |  |  |
| THE MAILING DATE OF THIS COMMUNICATION.  Edentions of time may be available under the provisions of 37 CPR 1.13(e). In ne event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the machine above above, and the provided above above, the machine above above, and the provided above above above, and the provided above above above above above above, and the provided above a | The MAILING DATE of this communication appears on the cover sheet with the correspondence address<br>Period for Reply   |                                       |                    |  |  |  |  |
| This action is FINAL.   2b)   This action is non-final.  | <ul> <li>THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.</li> <li>If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).</li> <li>Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any</li> </ul> |                                       |                    |  |  |  |  |
| 2a) ☐ This action is FINAL.  2b) ☐ This action is non-final.  3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ☐ Claim(s) 1-13 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) 9-13 is/are allowed.  6) ☐ Claim(s) 9-13 is/are rejected.  7) ☐ Claim(s) 5-6 and 8 is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on 31 July 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  *See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  | Status  |                                       |                    |  |  |  |  |
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|  | 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  | 5) 🔲 Notice of Informal Pa            |                    |  |  |  |  |
|  |   | 6) Other:                             |                    |  |  |  |  |

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#### **DETAILED ACTION**

1. Claims 1-13 are in the application.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Yoshida et al.

  Yoshida et al discloses an exhaust outlet system including an exhaust pressure reducing chamber 80 provided laterally of the pump chamber and including an inlet and an outlet.

  The outlet of the chamber 80 discharges into the pump chamber.
- 4. Claims 1, 3, and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Hattori et al.

Hattori et al discloses an exhaust outlet system including an exhaust pressure reducing chamber 102 including a resonator and having an inlet into the chamber and an outlet connected to the pump chamber.

## Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshida et al or Hattori et al, either one in view of Tsumiyama et al.

Although both of the principal references teach connecting the outlet from the expansion chamber into the pump chamber, Tsumiyama et al teaches that the outlet can be connected to the transom. In view of these disclosures, it would have been obvious to one skilled in the art to connect the outlet from the expansion chamber in either Yoshida et al or Hattori et al through the transom generally as taught by Tsumiyama et al. Such an arrangement is an optional configuration and merely a matter of engineering design choice.

7. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshida et al or Hattori et al, either one in view of Fukuda et al.

Fukuda et al discloses an exhaust system similar to that of Yoshida et al and Hattori et al. Fukuda teaches providing the outlet from the expansion chamber with a flap valve to prevent the entry of water from the pump chamber. In view of these disclosures, it would have been obvious to one skilled in the art to provide the outlet from the exhaust system of Yoshida et al or Hattori et al with a flap valve, generally as taught by Fukuda et al. The use of the flap valve would have been desirable to prevent the intrusion of water into the exhaust system, generally as taught by Fukuda et al.

### Allowable Subject Matter

8. Claims 5, 6, and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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9. Claims 9-13 are allowed.

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jesús D. Sotelo whose telephone number is 703-308-2563. The

examiner can normally be reached on Mon. - Fri. 6:00 AM -2:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Samuel J. Morano can be reached on 703-308-0230. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jesús D. Sotelo 7/30/0x

Primary Examiner Art Unit 3617

CPK 5-6D16 ◎

sotelo; ids

July 30, 2004